

Title (en)

Data processor with built-in emulation circuit

Title (de)

Datenprozessor mit eingebauter Emulationsschaltung

Title (fr)

Processeur de données avec circuit d'émulation incorporé

Publication

EP 0762276 B1 20011031 (EN)

Application

EP 96113467 A 19960822

Priority

US 52094595 A 19950830

Abstract (en)

[origin: EP0762276A1] A data processor (3) executes a real time trace function which allows an external development system (7) to dynamically observe internal operations of data processor (3) without assuming a type or availability of an external bus and without significantly impacting the efficiency and speed of the data processor (3). A debug module (10) of data processor (3) provides a parallel output port for providing internal operating information via a DDATA signal and a PST signal. The DDATA signal provides data which reflects operand values and the PST signal provides encoded status information which reflects an execution status of a central processing unit 92). Furthermore, the DDATA signal also provides captured instruction address program flow changes to allow external development system (7) to trace an exact program flow without requiring an externally visible address bus or an externally visible data bus. <IMAGE>

IPC 1-7

G06F 11/00

IPC 8 full level

G06F 11/28 (2006.01); **G06F 11/36** (2006.01)

CPC (source: EP KR US)

G06F 9/00 (2013.01 - KR); **G06F 11/364** (2013.01 - EP US); **G06F 11/3648** (2013.01 - EP US); **G06F 17/00** (2013.01 - KR)

Cited by

WO03021446A2; US6142683A; EP1091298A3; US6094729A; US6145123A; EP1170668A3; US6167536A; US6154857A; EP0849668A1; US6134652A; US6145100A; US6154856A; US6009270A; EP1184790A3; US6041406A; US6148381A; CN1071038C; US5724505A; EP0849669A1; US5978902A; EP0992907A3; US7793261B1; US6430727B1; US6269454B1; US6314530B1; WO9845783A1; WO9845782A1; WO0028419A1; US6175914B1; US6189140B1; EP1058189B1; KR100546087B1; KR100517679B1; WO03021446A3; US7174543B2

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